

10/044222

## ARTICULATING DISC SCREEN SECTION APPARATUS FOR RECYCLABLE MATERIALS

### ABSTRACT OF THE DISCLOSURE

A disc screen apparatus for classifying a stream of mixed recyclable materials of various sizes and shapes, including newspaper, clean mixed paper, magazines, plastic bottles, glass bottles and jars, cans, and the like. The apparatus has an inclined fixed first disc screen section and an inclined articulating second disc screen section whose angle of inclination can be independently adjusted via a hydraulic cylinder or other angular adjustment mechanism in order to improve the separation of newspaper and/or clean mixed paper without impairing the ability of the fixed disc screen section to separate mixed containers. The first and second disc screen sections are supported by first and second frames that carry the parallel driven shafts and discs that form the disc screen sections. The frames have complementary mating surfaces that limit the range of articulation of the second disc screen section.

10/044222-1